PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 117537 USN	FOR FURTHER ACTION See Form PCT/IPEA/416				
International application No.	International filing date (day/mon	th/year) Priority date (day/month/year)			
PCT/SE2003/001919	10-12-2003				
International Patent Classification (IPC) or national classification and IPC					
See Supplemental Box					
bee bappiemental box					
Applicant Tolofopolstichologot I W Enigency (publ) at al					
Telefonaktiebolaget L M Ericsson (publ) et al					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of 4 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report					
and/or sheets	and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which s	supersede earlier sheets, but which	this Authority considers contain an amendment that goes			
beyond the dis		tion as filed, as indicated in item 4 of Box No. I and the			
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic					
form only, as indicate Administrative Instruc	d in the Supplemental Box Relating	g to Sequence Listing (see Section 802 of the			
4. This report contains indications relating to the following items:					
Box No. I Basis of	the report				
Box No. II Priority					
Box No. III Non-esta	o novelty, inventive step and industrial applicability				
Box No. IV Lack of	unity of invention				
	ed statement under Article 35(2) wi sility; citations and explanations sup-	th regard to novelty, inventive step or industrial opporting such statement			
Box No. VI Certain	documents cited				
Box No. VII Certain o	defects in the international applicat	ion			
Box No. VIII Certain o	observations on the international ap	plication			
Date of submission of the demand		completion of this report			
12-05-2005	26.00	2006			
Name and mailing address of the IPEA/SE		26-01-2006 Authorized officer			
Patent- och registreringsverket					
Box 5055 S-102 42 STOCKHOLM Sara Thulin /LR					
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Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001919

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

H03K 5/00 (2006.01)

H03B 19/00 (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001919

Bo	x No. I	Ba	asis of the report				
1.	1. With regard to the language, this report is based on:						
1	\boxtimes	the inte	the international application in the language in which it was filed				
		a transla	a translation of the international application into				
		which is	s the language of a translation furnished for the purposes of:				
			international search (Rules 12.3(a) and 23.1(b))				
		Ц	publication of the international application (Rule 12.4(a))				
ĺ			international preliminary examination (Rules 55.2(a) and/or 55.3(a))				
2.	furnisi	With regard to the elements of the international application, this report is based on (replacement sheets which have bee furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report):					
	\boxtimes	the inte	nternational application as originally filed/furnished				
		the desc	cription:				
		pages	as originally filed/furnished				
		pages*					
		pages*					
		the clair	ms:				
		pages	as originally filed/furnished				
		pages*	as amended (together with any statement) under Article 19				
		pages*	received by this Authority on received by this Authority on				
		the drav					
		pages	as originally filed/furnished				
		pages*	received by this Authority on				
		pages*	received by this Authority on				
		a sequer	nce listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.		The ame	endments have resulted in the cancellation of:				
			the description, pages				
		同	the claims, Nos.				
		$\overline{\Box}$					
		Ħ	the drawings, sheets/figsthe sequence listing (specify):				
			any table(s) related to the sequence listing (specify):				
	r—						
4.		This rep made, si 70.2(c)).	ort has been established as if (some of) the amendments annexed to this report and listed below had not been ince they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule				
			the description, pages				
			the claims, Nos.				
			the drawings, sheets/figs				
			the sequence listing (specify):				
			any table(s) related to the sequence listing (specify):				
			some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001919

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims YES 1-14 Claims Inventive step (IS) Claims 1-14 Claims Claims Industrial applicability (IA) YES 1-14 Claims NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 5786715 A
D2: US 6229358 B1
D3: US 6150855 A
D4: US 6147525 A
D5: US 5475322 A

The cited documents represent the general state of the art.

The invention defined in claims 1-14 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed device for multiplying the pulse frequency of a signal in the form of a pulse train and method for multiplying the pulse frequency of a signal in the form of a pulse train. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-14 is novel and is considered to involve an inventive step. The invention is industrially applicable.